



An HVM Customer Testimonial

# HVM Upgrades Cement Plant's OLPD Sensors, Delivering ROI in Under Three Years

*During annual maintenance, this cement producer had HVM permanently install mounted OLPD sensors to further enhance safety and update aging technology, all without disrupting facility operations.*

## Background

For several years, HVM has supported this long-standing customer by performing facility-wide maintenance testing, including the maintenance of their older OLPD technology. As the customer prepared for their annual maintenance cycle, HVM identified an opportunity to improve safety, efficiency, and long-term reliability through upgraded diagnostic tools. Specifically, HVM proposed the implementation of permanently mounted High-Frequency Current Transformers (HFCTs), a newer generation of OLPD sensors that offer real-time monitoring without requiring manual setup during each service window. Because of HVM's proven track record, strong working relationship, and in-depth understanding of the facility's electrical infrastructure, the customer was open to considering a strategic upgrade that could modernize their approach to cable condition assessment.

## Company Profile

This Midwest cement manufacturer produces a broad range of cement products serving commercial, industrial, and construction. With decades of experience, the company is committed to delivering high-quality materials that meet industry standards while prioritizing safety, environmental responsibility, and community engagement.

## Industry

Construction Materials

## Location

Ohio, USA

## Benefits

- Modernized cable monitoring with safer, permanently mounted sensors
- Improved ongoing visibility into cable condition for proactive maintenance
- Clear payback analysis helped justify upfront investment despite budget constraints
- Trusted partnership enabled smooth technology transition and ongoing support

# Challenge

The facility's electrical equipment was aging, and continued reliance on outdated testing methods limited the effectiveness and efficiency of their maintenance program. The older OLPD system required hands-on testing during each maintenance cycle, increasing labor time and exposure to energized components. The proposed upgrade came with a higher upfront cost, which raised concerns given the customer's tight budget and need to prioritize spending. HVM needed to effectively communicate the long-term value of investing in newer HFCT technology, not only in terms of data quality and safety improvements, but also from a cost-savings perspective over time. The success of the proposal would hinge on showing how this upgrade could help the customer modernize their system, reduce risk, and improve operational efficiency without requiring a complete infrastructure overhaul.

# Solution

HVM leveraged its deep understanding of the customer's systems and presented a solution that replaced legacy OLPD testing methods with permanently mounted HFCTs. These sensors allowed for continuous monitoring without requiring manual setup during each maintenance cycle, reducing risk and increasing efficiency. To help justify the investment, HVM provided a simple payback analysis showing the customer could recover costs in under three years. The upgrade aligned with the customer's long-term goals of improving system reliability and safety without major infrastructure overhauls. As a result, HVM successfully implemented the HFCT solution and strengthened their role as a trusted partner, which has fostered ongoing project collaborations.

# Results

- ✓ New HFCT sensors installed with no operational disruptions
- ✓ Increased safety by minimizing exposure to live equipment
- ✓ Gained real-time insights to monitor cable health and avoid failures
- ✓ Achieved cost savings with a clear payback in under three years
- ✓ Built trust in HVM through ongoing support and new projects



**HVMcorp.com | HVM Headquarters, 5100 Energy Drive, Dayton, OH, 45414, USA | 1-866-HVM-TEAM (486-8326)**

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